

PB# 83-25

**Mid-Hudson Oxygen Co.,
Inc.**

Mid Hudson Oxygenator Site 83-25

General Receipt

5212

TOWN OF NEW WINDSOR

555 Union Avenue
New Windsor, N. Y. 12550

May 27 19 83

Received of Mid Hudson Oxygen \$ 25⁰⁰/₁₀₀
Twenty Five and 00/100 DOLLARS

For Application Fee Site Plan 83-25

DISTRIBUTION

FUND	CODE	AMOUNT
25.00	Check	
#4113		

By Pauline J. Townsend
Town Clerk

General Receipt

5277

TOWN OF NEW WINDSOR

555 Union Avenue
New Windsor, N. Y. 12550

July 15 19 83

Received of Mid Hudson Oxygen \$ 75⁰⁰/₁₀₀
Seventy Five and 00/100 DOLLARS

For Site Plan Fee Bal. 83-25

DISTRIBUTION

FUND	CODE	AMOUNT
75.00	Check	
#36613		

By Pauline J. Townsend
Town Clerk

Title

Mike Hudson @ ~~officer~~ site 83-25

Approved 7/13/83 -
fired with TC Office 7/22/83
sh

Memo FROM:

555 UNION AVENUE

Paul V. Cuomo, P.E. Planning Board Engineer
TOWN OF NEW WINDSOR
NEW WINDSOR, NEW YORK 12550

TO:

Planning Board

DATE:

July 15, 1983

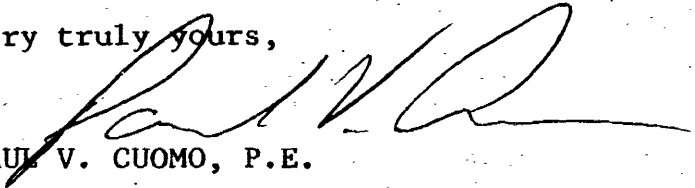
SUBJECT: Mid Hudson Oxygen

—FOLD HERE—

I have reviewed the site of Mid Hudson Oxygen
and the foundation plans of the oxygen tank meet
specifications.

It is my opinion you should grant final approval.

Very truly yours,


PAUL V. CUOMO, P.E.
Planning Board Engineer

PVC/sh

by _____

INTER-OFFICE CORRESPONDENCE

TO: ZONING BOARD OF APPEALS
FROM: TOWN FIRE INSPECTOR
DATE: 12 MAY 1983
SUBJECT: MID-HUDSON OXYGEN CO., INC.

In reference to your memo to me regarding the aforementioned subject, I traveled to Lathem, New York with Mr. Richard Schaffer on 11 May 1983, to inspect a Liquid Oxygen (LOX) installation, similiar to the proposed facility at his business on Walsh Avenue.

Provided proper safety requirements are met, I find no reason to deny Mid-Hudson Oxygen Co., Inc. a variance for this project.

Respectfully,



Robert F. Rodgers

cc: Town Planning Board
Town Building and Zoning Inspector

Planning Board
Town of New Windsor
555 Union Avenue
New Windsor, New York 12550

(This is a two-sided form)

83-25

Date Received 5/25/83
Meeting Date 6/8/83
Public Hearing _____
Action Date _____
Fees Paid _____

APPLICATION FOR SITE PLAN APPROVAL

1. Name of Project LIQUID OXYGEN PUMPING SYSTEM
2. Name of applicant MID-HUDSON OXYGEN CO., INC. Phone 914/ 561-4650
Address M.D. 23, WALSH RD. NEW WINDSOR N.Y. 12550
(Street No. & Name) (Post Office) (State) (Zip Code)
3. Owner of record BETHLEHEM HOLDING CORP. Phone 561-4650
Address M D 23, WALSH ROAD NEWBURGH N.Y. 12550
(Street No. & Name) (Post Office) (State) (Zip Code)
4. Name of person preparing plan ELIAS GREVAS Phone 562-8640
Address 45 QUASSAICK AVE., NEW WINDSOR, N.Y. 12550
(Street No. & Name) (Post Office) (State) (Zip Code)
5. Attorney _____ Phone _____
Address _____
(Street No. & Name) (Post Office) (State) (Zip Code)
6. Location: On the NORTH side of WALSH RD.
(Street)
_____ feet _____
(direction)
of _____
(Street)
7. Acreage of parcel 37,334 Sq. Ft.
8. Zoning district PLANNED INDUSTRIAL
9. Tax map designation: Section 9 Block 1 Lot(s) 61
10. This application is for the use and construction of LIQUID OXYGEN PUMPING
SYSTEM
11. Has the Zoning Board of Appeals granted any variance or special permit concerning this property? _____ If so, list case No. and Name _____
12. List all contiguous holdings in the same ownership
Section _____ Block _____ Lot(s) _____

FOR OFFICE USE ONLY:

Schedule _____

Column _____

Number _____

Attached hereto is an affidavit of ownership indicating the date the respective holdings of land were acquired, together with the liber and page of each conveyance into the present owner as recorded in the Orange County Clerk's Office. This affidavit shall indicate the legal owner of the property, the contract owner of the property and the date the contract of sale was executed.

IN THE EVENT OF CORPORATE OWNERSHIP: A list of all directors, officers and stockholders of each corporation owning more than five percent (5%) of any class of stock must be attached.

I HEREBY DEPOSE AND SAY THAT ALL THE ABOVE STATEMENTS AND INFORMATION, AND ALL STATEMENTS AND INFORMATION, CONTAINED IN THE SUPPORTING DOCUMENTS AND DRAWINGS ATTACHED HERETO ARE TRUE.

Sworn before me this

25th day of April, 1983.

William S. Schaffer
Applicant's Signature

PRESIDENT
Title

Ruth J. Eaton
Notary Public
Notary Public, State of New York
Qualified in Orange County
Commission Expires March 30, 1984
Reg. No. 4673512

OWNER'S ENDORSEMENT

(Completion required ONLY if applicable)

COUNTY OF ORANGE }
STATE OF NEW YORK } SS.:

William Schaffer being duly sworn, deposes and says that he resides
MD 23 - Walsh Road, New Windsor, N.Y. in the
(Owner's Address)
county of Orange and State of New York
and that he is (the owner in fee) of PRESIDENT of the BETHLEHEM
(Official Title) Holding Corp
Corporation which is the owner in fee) of the premises described in the foregoing application
and that he has authorized MID-HUDSON OXYGEN Co. INC. to make the fore-
going application for special use approval as described herein.

Sworn before me this.

25th day of April, 1983

William S. Schaffer
(Owner's Signature)

Ruth J. Eaton
Notary Public
RUTH J. EATON
Notary Public, State of New York
Qualified in Orange County
Commission Expires March 30, 1984
Reg. No. 4673512



1763

TOWN OF NEW WINDSOR

555 UNION AVENUE
NEW WINDSOR, NEW YORK
(914) 565-8550

Date: May 24, 1983

Mr. William Schaffer, President
MID-HUDSON OXYGEN, CO., INC.
M. D. 23 - Walsh Road
New Windsor, N. Y. 12550

RE: APPLICATION BEFORE ZONING BOARD OF APPEALS
83-18 - MID-HUDSON OXYGEN, CO., INC.

Dear Mr. Schaffer:

This is to confirm that your above application before the
New Windsor Zoning Board of Appeals was granted
at a meeting held on the 23rd day of May, 19 83.

A formal decision will be drafted and acted upon at a later
date. You will be receiving a copy of same by return mail.

Meanwhile, if you have any further questions, please do not
hesitate to call me.

Yours very truly,

PATRICIA DELIO, Secretary
New Windsor Zoning Board of Appeals

/pd

cc: Patrick Kennedy, Bldg/Zoning Inspector
Town Planning Board



McGOEY, HAUSER & GREVAS
CONSULTING ENGINEERS

45 QUASSAICK AVE. (ROUTE 9W)
NEW WINDSOR, NEW YORK 12550

TELEPHONE (914) 562-8640
PORT JERVIS (914) 856-5600

Licensed in
New York
New Jersey
Pennsylvania

24 May 1983

Town of New Windsor
Planning Board
555 Union Avenue
New Windsor, NY 12550

ATTENTION: MR. HENRY VAN LEEUWEN, CHAIRMAN

SUBJECT: MID-HUDSON OXYGEN SITE PLAN, WALSH ROAD

Dear Mr. Van Leeuwen:

Enclosed for your information are nine (9) copies of the Site Plan, Rev. 1-24 May 1983, for the subject project.

Please note that the Town of New Windsor Zoning Board of Appeals granted the area variances shown on the Plan, including the re-enforced concrete wall adjacent to the proposed liquid oxygen storage tank.

We would appreciate the placement of this item on the Planning Board's agenda for the meeting to be held on 8 June 1983.

If you should require any additional information prior to the meeting, please do not hesitate to contact this office.

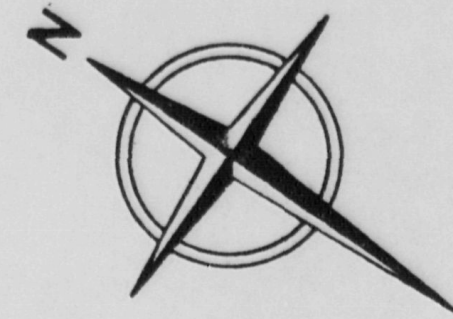
Very truly yours,

McGOEY, HAUSER AND GREVAS

Elias D. Grevas, L.S.
Partner

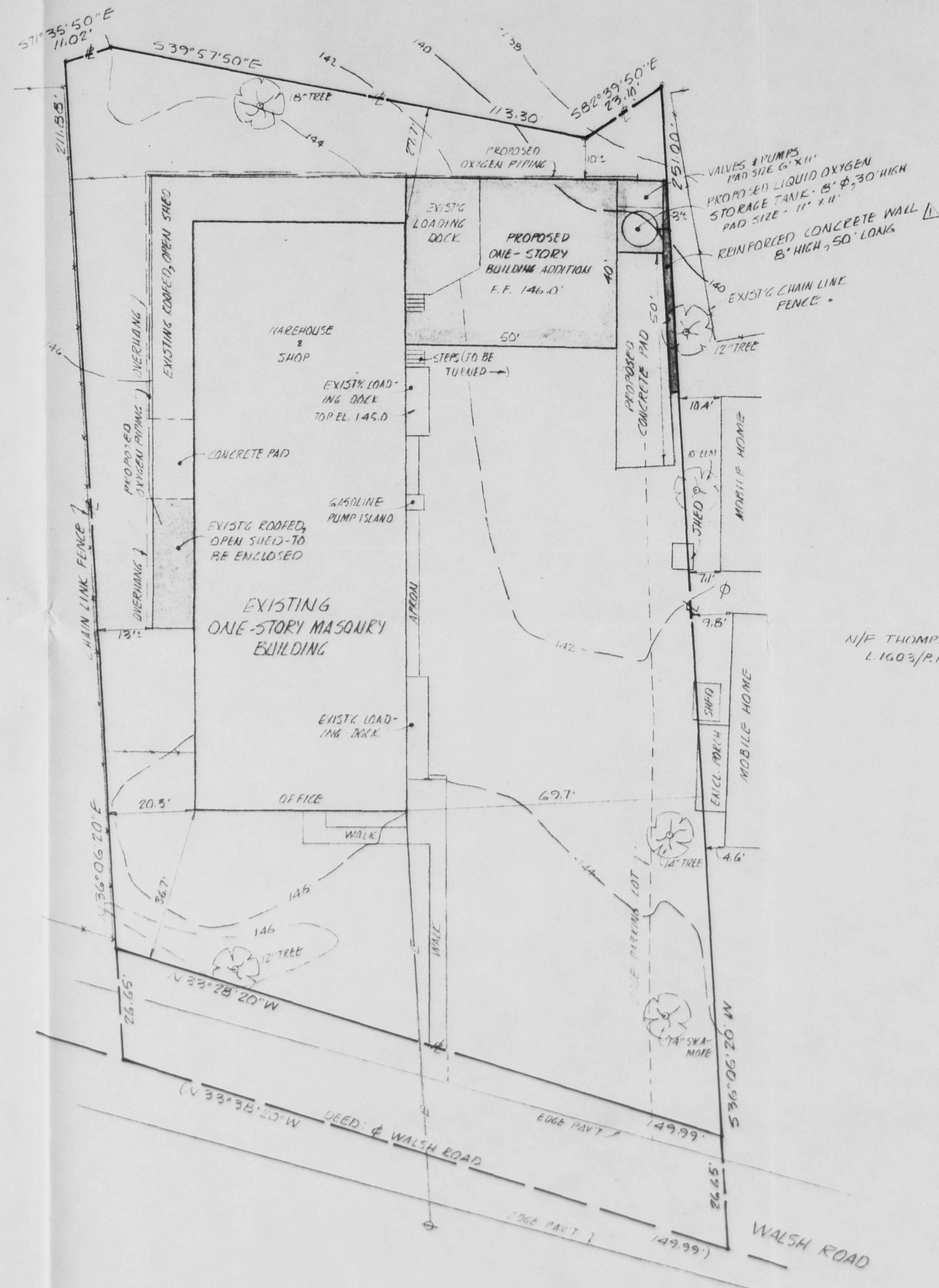
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EDG/pmc



N/F BILELLO & THOMPSON
L1885/P.170

N/F PLUCHINO
L1735/P.819



N/F THOMPSON
L1603/P.1111



LOCATION MAP

1"=1000'

NOTES

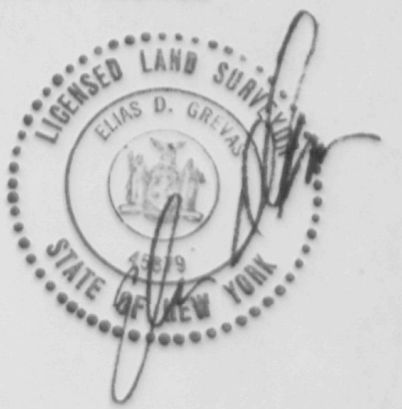
1. Being a proposed development of lands shown on the Town of New Windsor Tax Maps as being in Section 9, Block 1, Lot 61.
2. Boundary and topography shown hereon is from a field survey completed on 9 May 1983.
3. Property Area: 0.73 acres.
4. Property Zone: P1
5. Property Owner & Proposed Developer: Bethlehem Holding Corporation
Walsh Road
New Windsor, NY 12550

Area variance requested from New Windsor Zoning Local Law, Section 48-12, Table of Bulk Regs., Col. _____

Requirements	Proposed or Available	Variance Request
Min. Lot Area	40,000 S.F.	31,982***
Min. Lot Width	150 ft.	150'
Reqd. Front Yd.	50 ft.	36.7' ***
Reqd. Side Yd.	15/40ft.	***13.8'
Reqd. Rear Yd.	20 ft.	10'
Reqd. Street Frontage*		
Max. Bldg. Hgt.	1.5'	30'
Min. Floor Area*		28.5'
Dev. Coverage**		7%
Floor Area Ratio***	0.6	0.3

* Residential Districts only
** Non-residential districts only
***Existing Condition

6. The Town of New Windsor Zoning Board of Appeals (Case No. 83-18), following a Public Hearing held on 23 May 1983, approved the variances listed above.



UNAUTHORIZED ADDITION OR ALTERATION
TO THIS PLAN IS A VIOLATION (N.Y. SECT. 2209(2))
OF THE N.Y. EDUCATION LAW

McGOEY, HAUSER & GREVAS CONSULTING ENGINEERS 45 Quassaick Ave. (Rte. 9-W) New Windsor, New York 9 High Street Port Jervis, New York			PLAN FOR MID-HUDSON OXYGEN CO., INC. TOWN OF NEW WINDSOR ORANGE COUNTY NEW YORK	
Revision	Date	Description	Drawn	Sheet
1	11/15/83	ADDED CONCRETE WALL	20'	1
			Checked	
			Scale 1"=20'	
			Date 11/15/83	
			Job No D 876 83	

TANK MODEL	A TANK DIA.	B	C	D SLAB THICKNESS	E TOP REINFORCE	F BOTTOM REINFORCE	G	G ₁	G ₂	H	H ₁	H ₂	J	J ₁	J ₂	K ANCHOR BOLT DESIGN	L BOLT DIA.	M BOLT LENGTH	N THICKNESS OF PLATE	P DIA. OF HOLE	Q METAL SLEEVE DIMENSION
CLC-15	8'-0"	8'-0"	8'-0"	1'-0"	No. 4 @ 12"	No. 5 @ 12"	2'-4 9/16"			2'-9"			1'-4 1/2"			No. 1	1"	12"			
CLC-15A	8'-3 1/2"	8'-0"	8'-0"	1'-0"	No. 4 @ 12"	No. 5 @ 12"	2'-3 3/8"			2'-7 1/2"			1'-3 1/2"			No. 1	1"	12"			
CLC-15B	8'-3"	8'-0"	8'-0"	1'-0"	No. 4 @ 12"	No. 5 @ 12"	2'-8 1/4"			3'-1 1/2"			1'-6 5/8"			No. 1	1"	12"			
CLC-15C	8'-3"	8'-0"	8'-0"	1'-0"	No. 4 @ 12"	No. 5 @ 12"	2'-8 1/4"			3'-1 1/2"			1'-6 5/8"			No. 1	1"	12"			
CLC-16	5'-5 7/8"	8'-0"	8'-0"	1'-0"	No. 4 @ 12"	No. 5 @ 12"	2'-3 1/4"			2'-8"			1'-4"			No. 1	1"	12"			
CLC-32	8'-0 1/2"	8'-0"	8'-0"	1'-6"	No. 4 @ 10"	No. 6 @ 10"	2'-9 1/4"			3'-3"			1'-7 1/2"			No. 2	1 1/2"	1'-6"	1"	2"	3" O.D. X 1'-0" Long
CLC-32A	8'-3"	8'-0"	8'-0"	1'-6"	No. 4 @ 10"	No. 6 @ 10"	2'-8 1/4"			3'-1 1/4"			1'-6 5/8"			No. 2	1 1/2"	1'-6"	1"	2"	3" O.D. X 1'-0" Long
CLC-32B	8'-0 1/2"	8'-0"	8'-0"	1'-6"	No. 4 @ 10"	No. 6 @ 10"	2'-9 1/4"			3'-3"			1'-7 1/2"			No. 2	1 1/2"	1'-6"	1"	2"	3" O.D. X 1'-0" Long
CLC-32C	8'-2 7/8"	8'-0"	8'-0"	1'-6"	No. 4 @ 10"	No. 6 @ 10"	2'-8 1/4"			3'-1 1/4"			1'-6 5/8"			No. 2	1 1/2"	1'-6"	1"	2"	3" O.D. X 1'-0" Long
CLC-32D	8'-0"	8'-0"	8'-0"	1'-6"	No. 4 @ 10"	No. 6 @ 10"	2'-8 1/4"			3'-1 1/4"			1'-6 5/8"			No. 2	1 1/2"	1'-6"	1"	2"	3" O.D. X 1'-0" Long
CLC-32E	8'-9 1/2"	8'-0"	8'-0"	1'-6"	No. 4 @ 10"	No. 6 @ 10"	2'-8 1/4"			3'-1 1/4"			1'-6 5/8"			No. 2	1 1/2"	1'-6"	1"	2"	3" O.D. X 1'-0" Long
CLC-41	8'-0"	11'-0"	11'-0"	3'-0"	No. 5 @ 12"	No. 6 @ 12"	3'-3 7/16"			3'-9 9/16"			1'-10 1/2"			No. 2	2"	1'-8"	1 1/4"	2 1/2"	4" O.D. X 1'-3" Long
CLC-41A	8'-0"	11'-0"	11'-0"	3'-0"	No. 5 @ 12"	No. 6 @ 12"		3'-7 5/16"	4'-0 1/2"		4'-2"	4'-8"		2'-1"	2'-4"	No. 3	1 1/2"	1'-9"	1"	1 5/8"	
CLC-44	8'-0"	11'-0"	11'-0"	3'-0"	No. 5 @ 12"	No. 6 @ 12"	3'-3 7/16"			3'-9 9/16"			1'-10 1/2"			No. 2	2"	1'-8"	1 1/4"	2 1/2"	4" O.D. X 1'-3" Long
CLC-44A	8'-0"	11'-0"	11'-0"	3'-0"	No. 5 @ 12"	No. 6 @ 12"	3'-3 7/16"			3'-9 9/16"			1'-10 1/2"			No. 2	2"	1'-8"	1 1/4"	2 1/2"	4" O.D. X 1'-3" Long
CLC-44B	8'-0"	11'-0"	11'-0"	3'-0"	No. 5 @ 12"	No. 6 @ 12"	3'-3 7/16"			3'-9 9/16"			1'-10 1/2"			No. 2	2"	1'-8"	1 1/4"	2 1/2"	4" O.D. X 1'-3" Long
CLC-44C	8'-0"	11'-0"	11'-0"	3'-0"	No. 5 @ 12"	No. 6 @ 12"	3'-3 7/16"			3'-9 9/16"			1'-10 1/2"			No. 2	2"	1'-8"	1 1/4"	2 1/2"	4" O.D. X 1'-3" Long
CLC-93	8'-0"	13'-0"	13'-0"	3'-6"	No. 6 @ 12"	No. 6 @ 12"	3'-7 1/4"			4'-4"			2'-0 1/2"			No. 2	2"	1'-9"	1-1/4"	2 1/2"	4" O.D. X 1'-3" Long
CLC-93A	8'-0"	13'-0"	13'-0"	3'-6"	No. 6 @ 12"	No. 6 @ 12"	3'-6 1/4"			4'-0 3/4"			2'-0 7/16"			No. 2	2"	1'-9"	1 1/4"	2 1/2"	4" O.D. X 1'-3" Long
CLC-93B	8'-0"	13'-0"	13'-0"	3'-6"	No. 6 @ 12"	No. 6 @ 12"	3'-3 7/16"			3'-9 9/16"			1'-10 3/4"			No. 2	2"	1'-9"	1 1/4"	2 1/2"	4" O.D. X 1'-3" Long
CLC-93C	8'-0"	13'-0"	13'-0"	3'-6"	No. 6 @ 12"	No. 6 @ 12"	3'-3 7/16"			3'-9 9/16"			1'-10 1/2"			No. 2	2"	1'-9"	1 1/4"	2 1/2"	4" O.D. X 1'-3" Long
CLC-93D	8'-0"	13'-0"	13'-0"	3'-6"	No. 6 @ 12"	No. 6 @ 12"	3'-3 7/16"			3'-9 9/16"			1'-10 1/2"			No. 2	2"	1'-9"	1 1/4"	2 1/2"	4" O.D. X 1'-3" Long
CLC-93E	8'-0"	13'-0"	13'-0"	3'-6"	No. 6 @ 12"	No. 6 @ 12"		3'-3 3/16"	3'-10 1/8"		3'-9 1/4"	4'-5 1/4"				No. 3	2"	1'-9"	1 1/4"	2 1/8"	
CLC-100	10'-0"	14'-0"	14'-0"	2'-0"	No. 5 @ 12"	No. 8 @ 9"	4'-5"			5'-1"			2'-6 1/2"			No. 2	2"	1'-9"	1 1/4"	2 1/2"	4" O.D. X 1'-3" Long
CLC-110	8'-0"	14'-0"	14'-0"	2'-0"	No. 5 @ 12"	No. 8 @ 9"		3'-6 7/16"	4'-1 3/8"		4'-1"	4'-9"		2'-0 1/2"	2'-4 1/2"	No. 3	2"	1'-9"	1 1/4"	2 1/8"	
CLC-110A	8'-0"	14'-0"	14'-0"	2'-0"	No. 5 @ 12"	No. 8 @ 9"		3'-6 7/16"	4'-1 3/8"		4'-1"	4'-9"		2'-0 1/2"	2'-4 1/2"	No. 3	2"	1'-9"	1 1/4"	2 1/8"	
CLS-32	8'-4"	8'-0"	8'-0"	1'-6"	No. 4 @ 10"	No. 4 @ 10"	2'-8 7/8"			3'-2"			1'-7"			No. 2	1 1/2"	1'-6"	1"	2"	3" O.D. X 1'-0" Long
CLS-32A	8'-3 1/16"	8'-0"	8'-0"	1'-6"	No. 4 @ 10"	No. 4 @ 10"	2'-8 1/4"			3'-1 1/4"			1'-6 5/8"			No. 2	1 1/2"	1'-6"	1"	2"	3" O.D. X 1'-0" Long
CLS-32B	8'-3 1/16"	8'-0"	8'-0"	1'-6"	No. 4 @ 10"	No. 4 @ 10"	2'-8 1/4"			3'-1 1/4"			1'-6 5/8"			No. 2	1 1/2"	1'-6"	1"	2"	3" O.D. X 1'-0" Long
CLS-93	8'-0"	13'-0"	13'-0"	3'-6"	No. 6 @ 12"	No. 6 @ 12"	3'-5 9/16"			4'-0"			2'-9"			No. 2	2"	1'-9"	1 1/4"	2 1/2"	4" O.D. X 1'-3" Long
CLS-93A	8'-0 1/2"	13'-0"	13'-0"	3'-6"	No. 6 @ 12"	No. 6 @ 12"	3'-4"			3'-9 13/16"			1'-10 7/8"			No. 2	2"	1'-9"	1 1/4"	2 1/2"	4" O.D. X 1'-3" Long
CLS-93B	8'-0"	13'-0"	13'-0"	3'-6"	No. 6 @ 12"	No. 6 @ 12"	3'-3 7/16"			3'-9 9/16"			1'-10 1/2"			No. 2	2"	1'-9"	1 1/4"	2 1/2"	4" O.D. X 1'-3" Long
CLS-93C	8'-0"	13'-0"	13'-0"	3'-6"	No. 6 @ 12"	No. 6 @ 12"	3'-3 7/16"			3'-9 9/16"			1'-10 1/2"			No. 2	2"	1'-9"	1 1/4"	2 1/2"	4" O.D. X 1'-3" Long
CLS-93D	8'-0"	13'-0"	13'-0"	3'-6"	No. 6 @ 12"	No. 6 @ 12"		3'-3 3/16"	3'-10 1/8"		3'-9 1/4"	4'-5 1/4"		1'-10 5/8"	2'-2 5/8"	No. 3	2"	1'-9"	1 1/4"	2 1/8"	
TM-1500	8'-0"	8'-0"	8'-0"	1'-0"	No. 4 @ 12"	No. 5 @ 12"	2'-8 1/16"			3'-1"			1'-6 1/2"			No. 1	1"	12"			
TM/TL 3000	8'-0"	8'-0"	8'-0"	1'-0"	No. 4 @ 10"	No. 6 @ 10"	2'-3 7/8"			3'-10"			1'-11"			No. 2	1 1/2"	1'-6"	1 1/4"	2"	4" O.D. X 1'-3" Long
TM/TL 6000	8'-0"	11'-0"	11'-0"	3'-0"	No. 5 @ 12"	No. 6 @ 12"	3'-3 7/8"			3'-10"			1'-11"			No. 2	2"	1'-8"	1 1/4"	2 1/2"	4" O.D. X 1'-3" Long
P-1025(V)	8'-4"	8'-0"	8'-0"	1'-0"	No. 4 @ 12"	No. 5 @ 12"	2'-7 3/16"			3'-0"			1'-6"			No. 1	1"	12"			
P-3125(V)	8'-0"	8'-0"	8'-0"	1'-0"	No. 4 @ 10"	No. 6 @ 10"	2'-11 15/16"			3'-5 1/2"			1'-8 1/2"			No. 2	1 1/2"	1'-6"	1"	2"	3" O.D. X 1'-0" Long
P-5000(V)	8'-0"	11'-0"	11'-0"	3'-0"	No. 5 @ 12"	No. 6 @ 12"	2'-11 15/16"			3'-6 1/2"			1'-9 1/2"			No. 2	2"	1'-8"	1 1/4"	2 1/2"	4" O.D. X 1'-3" Long
P-6200(V)	10'-0"	13'-0"	13'-0"	3'-0"	No. 6 @ 12"	No. 6 @ 12"	3'-9"			4'-4"			2'-2"			No. 2	2"	1'-9"	1 1/4"	2 1/2"	4" O.D. X 1'-3" Long
P-11300(V)	10'-0"	14'-0"	14'-0"	2'-0"	No. 5 @ 12"	No. 8 @ 12"	3'-9"			4'-4"			2'-2"			No. 2	2"	1'-9"	1 1/4"	2 1/2"	4" O.D. X 1'-3" Long
P-13150(V)	10'-0"	16'-0"	16'-0"	3'-0"	No. 5 @ 8"	No. 6 @ 8"	3'-9"			4'-4"			2'-2"			No. 2	2"	1'-9"	1 1/4"	2 1/2"	4" O.D. X 1'-3" Long
H-1000	8'-0"	8'-0"	8'-0"	1'-0"	No. 4 @ 12"	No. 5 @ 12"	3'-2 3/16"			3'-8 1/16"			1'-10 1/32"			No. 1	1"	12"			
CS-1500	8'-0 5/8"	8'-0"	8'-0"	1'-0"	No. 4 @ 12"	No. 5 @ 12"	2'-3 13/16"			2'-8 1/8"			1'-4 1/16"			No. 1	1"	12"			
CS-3000	7'-0"	8'-0"	8'-0"	1'-0"	No. 4 @ 10"	No. 6 @ 10"	2'-9 5/16"			3'-2 3/8"			1'-7 3/16"			No. 2	1 1/2"	1'-6"	1"	2"	3" O.D. X 1'-0" Long
CS-6000	10'-0"	13'-0"	13'-0"	3'-0"	No. 6 @ 12"	No. 6 @ 12"	4'-4 13/16"			5'-0 7/8"			2'-6 7/16"			No. 2	2"	1'-9"	1 1/4"	2 1/2"	4" O.D. X 1'-3" Long

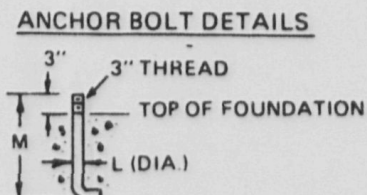
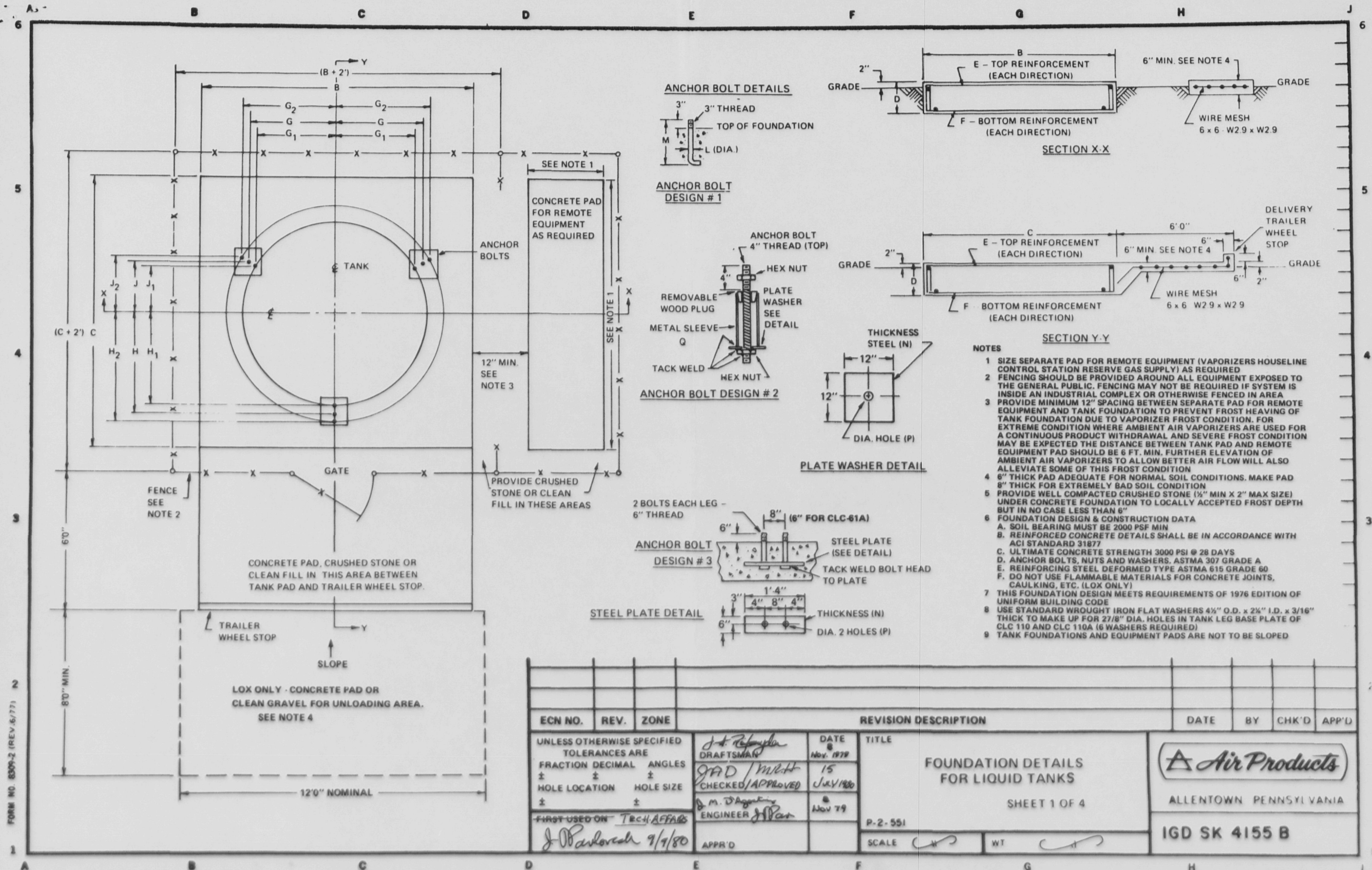
APPROVED BY
IGD ENGINEERING
TECHNICAL AFFAIRS *IGD/mrk*
JUNE 16, 1980

DESIGN CONDITION NO. 2

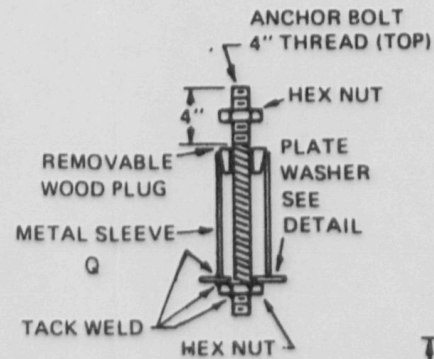
LIN, LOX, LAR
SEISMIC ZONE 1 & 2
ESSENTIAL OR NON-ESSENTIAL*

*SEE DESIGN CONDITION NO. 1 LIN NON-ESSENTIAL
P-2-661

IGD SK 4155B
SHT. 3 OF 4



ANCHOR BOLT
DESIGN #1



ANCHOR BOLT DESIGN #2

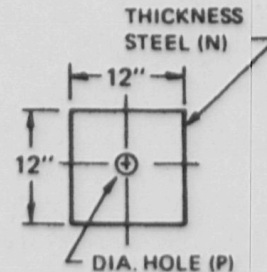
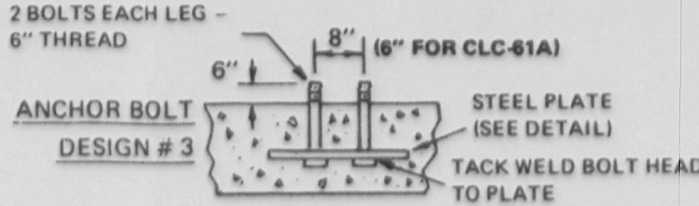
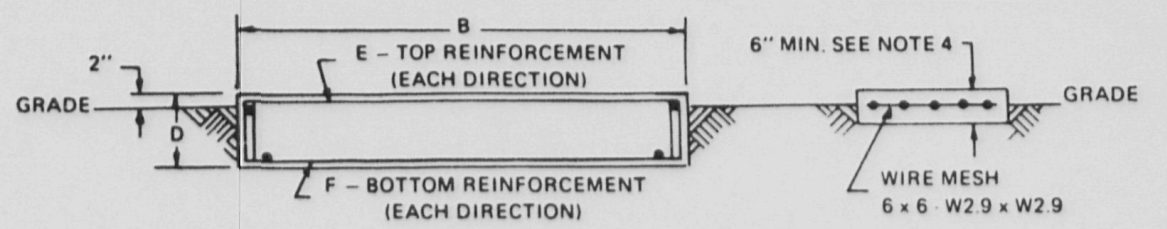
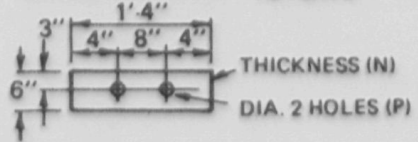


PLATE WASHER DETAIL

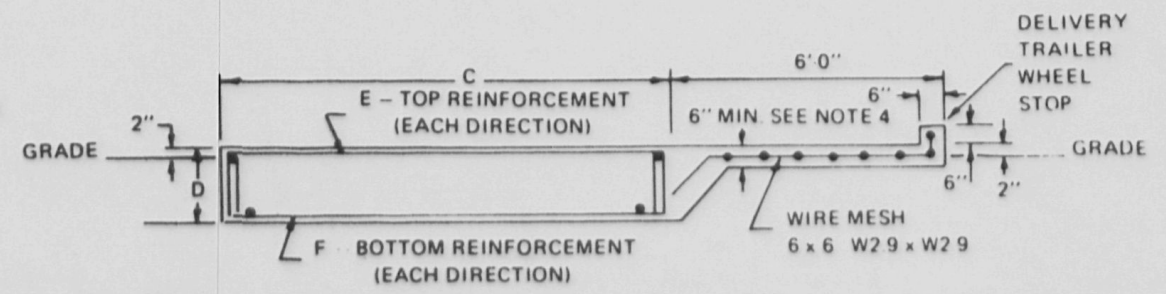


ANCHOR BOLT
DESIGN #3

STEEL PLATE DETAIL



SECTION X-X



SECTION Y-Y

- NOTES
- 1 SIZE SEPARATE PAD FOR REMOTE EQUIPMENT (VAPORIZERS HOUSELINE CONTROL STATION RESERVE GAS SUPPLY) AS REQUIRED
 - 2 FENCING SHOULD BE PROVIDED AROUND ALL EQUIPMENT EXPOSED TO THE GENERAL PUBLIC. FENCING MAY NOT BE REQUIRED IF SYSTEM IS INSIDE AN INDUSTRIAL COMPLEX OR OTHERWISE FENCED IN AREA
 - 3 PROVIDE MINIMUM 12" SPACING BETWEEN SEPARATE PAD FOR REMOTE EQUIPMENT AND TANK FOUNDATION TO PREVENT FROST HEAVING OF TANK FOUNDATION DUE TO VAPORIZER FROST CONDITION. FOR EXTREME CONDITION WHERE AMBIENT AIR VAPORIZERS ARE USED FOR A CONTINUOUS PRODUCT WITHDRAWAL AND SEVERE FROST CONDITION MAY BE EXPECTED THE DISTANCE BETWEEN TANK PAD AND REMOTE EQUIPMENT PAD SHOULD BE 6 FT. MIN. FURTHER ELEVATION OF AMBIENT AIR VAPORIZERS TO ALLOW BETTER AIR FLOW WILL ALSO ALLEVIATE SOME OF THIS FROST CONDITION
 - 4 6" THICK PAD ADEQUATE FOR NORMAL SOIL CONDITIONS. MAKE PAD 8" THICK FOR EXTREMELY BAD SOIL CONDITION
 - 5 PROVIDE WELL COMPACTED CRUSHED STONE (1/2" MIN X 2" MAX SIZE) UNDER CONCRETE FOUNDATION TO LOCALLY ACCEPTED FROST DEPTH BUT IN NO CASE LESS THAN 6"
 - 6 FOUNDATION DESIGN & CONSTRUCTION DATA
A. SOIL BEARING MUST BE 2000 PSF MIN
B. REINFORCED CONCRETE DETAILS SHALL BE IN ACCORDANCE WITH ACI STANDARD 318.77
C. ULTIMATE CONCRETE STRENGTH 3000 PSI @ 28 DAYS
D. ANCHOR BOLTS, NUTS AND WASHERS, ASTM A 307 GRADE A
E. REINFORCING STEEL DEFORMED TYPE ASTM A 615 GRADE 60
F. DO NOT USE FLAMMABLE MATERIALS FOR CONCRETE JOINTS, CAULKING, ETC. (LOX ONLY)
 - 7 THIS FOUNDATION DESIGN MEETS REQUIREMENTS OF 1976 EDITION OF UNIFORM BUILDING CODE
 - 8 USE STANDARD WROUGHT IRON FLAT WASHERS 4 1/2" O.D. x 2 1/2" I.D. x 3/16" THICK TO MAKE UP FOR 27/8" DIA. HOLES IN TANK LEG BASE PLATE OF CLC 110 AND CLC 110A (6 WASHERS REQUIRED)
 - 9 TANK FOUNDATIONS AND EQUIPMENT PADS ARE NOT TO BE SLOPED

ECN NO.	REV.	ZONE	REVISION DESCRIPTION		DATE	TITLE	DATE	BY	CHK'D	APP'D
UNLESS OTHERWISE SPECIFIED TOLERANCES ARE FRACTION DECIMAL ANGLES ± ± ± HOLE LOCATION HOLE SIZE ± ±			J. R. Ruffolo DRAFTSMAN	DATE Nov. 1979	15	JULY 1980	FOUNDATION DETAILS FOR LIQUID TANKS			
FIRST USED ON TECH. AFFAIRS J. P. Parkovitch 9/9/80			GAD / mlt CHECKED / APPROVED	DATE Nov 79	15	JULY 1980				
			D. M. Duggan ENGINEER	DATE Nov 79	15	JULY 1980	SHEET 1 OF 4			
			APPR'D				P-2-551			
							SCALE			
							WT			

Air Products

ALLENTOWN PENNSYLVANIA

IGD SK 4155 B